CLAIMS

What is claimed is:

1.   A method to reproduce AV data in an interactive mode, comprising:

identifying a set parental level; and

reproducing the AV data in the interactive mode using a mark-up document corresponding to the identified parental level.

2.   The method of claim 1, wherein the reproducing of the AV data comprises:

identifying the parental level in meta-information written in a mark-up document designated as a start-up document; and

reproducing the AV data using the mark-up document selected based upon a result of comparing the parental level identified in [in] the meta-information with the parental level identified in as the set parental level.

3.   The method of claim 1, wherein the AV data is reproduced in the interactive mode using the mark-up document presenting a warning message indicating that interactive content cannot be displayed when the parental level in the meta-information is lower than the set parental level.

4.   A method to reproduce AV data in an interactive mode, comprising:

identifying a set parental level;

reading a mark-up document in a sub-directory corresponding to the set parental level among sub-directories of an interactive directory; and

reproducing the AV data in an interactive mode using the read mark-up document.

5.   A method to display a mark-up document according to a parental level, comprising:

identifying a predetermined value of an element of a mark-up document; and

determining whether to display the predetermined value of the element depending on the predetermined value based on display rule information.

6.   A method to reproduce AV data in an interactive mode using a mark-up document, comprising:

identifying a class value of an element of a mark-up document;

determining whether to display the element depending on the class value and display rule information; and

embedding an AV screen obtained by reproducing the AV data in a mark-up screen obtained as a result of the determination and displaying the result of the embedment.

7.   The method of claim 5, wherein the display rule information is written according to CSS rules.

8.   The method of claim 7, wherein the display rule information is written in the form of a CSS file.

9.   A method to reproduce AV data in an interactive mode, comprising:

selecting the interactive mode;

identifying a parental level set by a user;

identifying the parental level written in a mark-up document designated as a start-up document;

comparing the parental level recorded in the mark-up document with the parental level set by the user;

reproducing the AV data in the interactive mode using the mark-up document with a warning message indicating that the interactive content corresponding to the AV data cannot be displayed when the parental level written in the start-up document is less than the parental level set by the user; and

reproducing the AV data in the interactive mode using the mark-up document comprising the interactive content to the AV data when the parental level written in the start-up document is higher than the parental level set by the user.

10.   A method to display a mark-up document, comprising:

identifying a parental level set by a user;

identifying a class value allotted to a predetermined element of the mark-up document;

determining whether to display the predetermined element based upon the parental level identified and the class value allotted to the predetermined element; and

displaying the predetermined element.

11.   A method to reproduce AV data in an interactive mode using a mark-up document, comprising:

identifying a parental level set by a user;

identifying a class value assigned to a predetermined element of the mark-up document;

determining whether to display the predetermined element based upon the parental level identified and the class value and with reference to display rule information; and

embedding and displaying an AV screen obtained by reproducing the AV data in the mark-up screen.

12.   The method of claim 1, wherein the reproducing of the AV data comprises, in response to the identified parental level being equal to or higher than a level of the mark-up document, reproducing the AV data using one or more elements of the mark-up document corresponding to the level.

13.   The method of claim 12, wherein the identified parental level and the level of the start-up document comprise values 1 through 8 defined by data storage medium-video standards for compatibility.

14.   The method of claim 12, wherein:

the mark-up document includes a list of URLs for web servers, and

the reproducing of the AV data comprises, in response to the identified parental level being equal to or higher than the level of the display rule information, accessing one or more of the URLs corresponding to the level.